

rRNA Gene Cluster

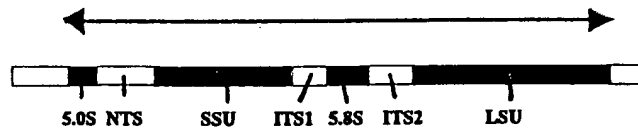


FIG. 1

101	TCCAGTAGTT	CAATAGAGAG	ACTAGTG	ATAGTTTATA	ACATTGTCCA	150
151						200
	AGGGGTGGAG	GGGGATGCGC	GAAATCGATG	TGCACGTTTG	GTCAAAGATG	
201						250
	CTCGCGAAAG	CTGCACATCA	ATTTTCGCACA	TGGGCGAAAT	TGACTTGCAG	
251						300
	GTGGGTATAA	AAGTTGATGT	AGGCCATGTG	GCTCGATTTC	AACCATATGG	
301						350
	GTATGCTTCT	GAGGATGGGG	TGTTACAGTG	GACCATATGA	GGTAGGTCAT	
351						400
	TTGGAGATGT	CACCAAAATG	GTCTAAATCT	GCGCATTTCCA	TTTAAGTGAA	
401						450
	TTTAAGTGAA	ATTTAAGTGA	ATTTTACTTA	AAATTGACCT	TTTTCGTTGC	
451						500
	GCAGATTTGG	GGTGGTGATG	GGTGACGCGG	CGAATTTTTT	AAAAAAGAGG	
500						550
	TATATCGCGT	GCTATTTGTA	TTTTTGGTAT	CACCGCGTCA	CCAATCACCA	
551						600
	TTGACGGTTT	CTTTTTCGAA	GTTTTTCCGG	ATTATTGCAT	TTTTTATATA	
600						650
	ATTGTGGGTG	GCTGATTCCT	GCGAAAGGAC	TGTTGTGATG	TCCGAGTTCC	
651						700
	CAAATTGGGA	GTTTTTGGAC	ATCACTCCTG	ATCTGCCGGC	GGCGATCAGG	
700						750
	ATGACTGACA	TTTCGATATA	TTTTGGGTAT	TCGATAGCTG	CCAAATCGGT	
751						800
	CAGCGTCGAG	TATTCGGTT	TATTCGAAGG	ATTCATGATA	TTGCAAAATA	
800						850
	TCATTGATTT	TCATGGGGTT	TTGTATTAGT	ACCCGCTCAT	TGTGGGAAAG	
851						900
	TCGGGTGGAT	TTATCTTACC	CGCAAATCTA	ATACAAGATT	TGCATGATGC	
900						950
	AGCAATAGAC	CAAGGTTAGT	ATAGCAGTTG	TATTTATACG	ACTAGTTATG	
951						1000
	CAAACCCCTT	GTGTTTTTTG	TTGCGACTCT	TGGCGTGAAC	CGGAAGACCG	
1000						1050
	GACCTCGCTT	TCGACTATTC	ATCTTTGATG	GATATGAGAT	CGCAAGGGTA	
1051						1100
	TCGCTTCGTG	CGATATTTAG	TGACCATCAG	AGCACGCTAC	GACTTTTGAT	
1100						1150
	TATATCCTTG	GATTTAATCG	GAAGCTCGCA	AGCATTGCAT	TGATGCAATC	

FIG. 2

#51
 ACAGAAATTG ACAACATTGT CACAAATTCT CAAATTGGAC AACATTGGAC
 #101
 AAAAATTCAC AACATACATT GGACAACAGT GGACAACGAA CCCAAACCCG
 #151
 ACAACATTGT CCAGGGGGAT AGGGGGTGAA AAAGCAGTGC CGGCAAAGTC
 #201
 GAAAGATGTC AAGTTGGAAT GCGGCTCAAA TTCGTCAATTT GTGTAAATCC
 #251
 GCAATTTTGC CAATGTGCAA TTTTGCAAAT GTGCAATTTT GCAAATGTGC
 #301
 AATTTTGCCA ATGTGCAATT TTGCAAATGC GCAATTTTGC AAATCCGCAA
 #351
 TTTTGCAAAT GTGCAATTTT GGAAAATCAC CAAATGAAAA TCGTCCAAGT
 #401
 CGAATTGGAG GCGTGGTGAC ATGGTCCCGG GATCCCTGG TTACAGTGGA
 #451
 CAATATCCCA GCAATATTCG CTGTAATTG GAGTTTCGCT GTTTTGCGAA
 #501
 ATTTTGAGTC TGAAAAAATA AATTGCAAAT GCGCAAAGGG GGTGAAGGAA
 #551
 AAAAAGCAC CCCCGAAGGT AAAATTCCCT TTAAGTCCCT TCGCATTGT
 #601
 CAAAATTTTC AAAAATTGTT GCAAATGCGC TTTTGTATT TGGCCGGTTC
 #651
 ATTGGTGTCA AAAGTTGCCT GGGGTGGTTA CACAATGCAC GGAATTGGTT
 #701
 GGAAGTTGTG TGATTGAAAA TTGGTGTGT CACACAATTT TCGCATTGT
 #751
 CAAAATTCG CAAATTGGAC AAAAAGGGT CGGCACAGT CAAATTGCGC
 #801
 AATTTCACT TTGAAGTGAG TCGCATTGT TGGGGCAGAA ATGTGGTGAC
 #851
 AGCATCGTTT TTTATAATAA ATATTCTATA TTAGTATCT TTATTATAAT
 #901
 TTGCTGTAC CAATCACCAT TTTAGAATT TTATTTTTTT ATGTTTTAGT
 #951
 GACCGCGGGA TTTTTTGCAA AGTACTATYG TGATGTTGA GTTGTGTGAA
 #1001
 ATGGGCAATT TAGAACATCA TCAGAAATCG CTGAATAGTG ATTTTGTAGT
 #1051
 TTGACTGTTT GAAGTGTTTT GGGTATTCGG CAGCTGCCAA ATCGGTCAGC
 #1101
 GTCGAATATA ATAGCATTTT TGTGTGTATA TGATATTTAG CGATATCATT
 #1151
 GGAATCATGG GGTTTTGTAT TAGTACCCGC TCATTGTGGG AATGTCGGGT
 #1201
 GGTTCATAT CACCTGCAA TTTAATACAG GATTGTCATG ATGCAGCGAC
 #1251
 TGACCGGGGT TGGTATAATA GCTGATTATT CGGCTTATTA TGCAGACCTA
 #1301
 TCGTGTTAGT AGTTGCGACT CTTGGCGTGA ACCGGAAGAC CGGAATTGA
 #1351
 ATTCGACTAT TTACGTCCGT AAACAGGAGA TTTCAAGAAT ATTGCACATT
 #1401
 TTGCGTGATA TAAACGTGAT CATCTGAGCA CGCTTCGACT CTTGGATATC
 #1451
 TGCTAATCAG CCGTCATCTG AGAGCTCGCA AGCATTGCAA TTGATGCAAT
 #1501

FIG. 3

151	AAAAGTATGC	GAAAAGTTCT	TGTCAA	T	GACAGTGTGT	GAAAAA	ACTG
201	AAAAAGTCCA	CTCAACATTG	CATTATGCAA	TTTGCCACTC	AACATTGTCC		
251	AGGGGGATAG	GGGGTGAAAA	AGTATCGCAG	TCCAAGTAA	AAGATGCTAA		
301	GTTGAAATGC	GGCGCAAATT	CATCACTTGA	GTTGCGAAAA	TCCCTAAAGT		
351	CGAATTTGGC	ACTCGGTGAC	ATGATCGGGA	ATTTCCTGG	TTACAGTGGT		
401	CAAATCCCAG	CAATTTTGGC	AAAGTTTTTG	AGTTTCGCAC	TTTTCGCAAA		
451	TTTCGTGTCT	GAAAAA	TTTCAACTTT	GCGCAAAGGG	GTCAAAGGGA		
501	AAAAAAGCAC	CCTCAAAAGG	AAATTTCCCT	TTAATCCCCT	TTGAAAAAAA		
551	TGCGCAAAGT	TAAATTTGCG	AAAATTTCGA	TTTCTCATA	TGACCGATTA		
601	GTTGGTGCCA	GATGGTAGTC	GGGATGGTTA	CACGGTGCAC	GGAAGTCGTT		
651	GGAAGTTCTG	GAGTTACGAA	TTGGTCCCGT	CACCACAATT	TGCGCATTTT		
701	TGAAATTGCG	CAAATTTGCG	AAAAAAGCAG	CGCGCAAAGT	TAAATTGTGC		
751	GAAAATTGAC	TTTCAGGTCG	GTGCGCAAAT	TTGGGGTGAA	AAAGTGGTGA		
801	CAGCATCAGA	ATTATAATAA	ATAATCTATA	ATCTAGTTCT	TTTATTATAA		
851	TTAGCTGTCA	CCAATCACCA	TTTGAGATTT	TTTATTTTTT	TATGTTTTAG		
901	TGACCGCGGT	ATTTTTTCCA	GAGTACTATC	GTGATGTCTG	AGTTGTCTAA		
951	AACGGCAATT	TCAGAACATT	ACCAGAAAAC	ACTGAATAGT	GGTTTCTGAG		
1001	TCTGACTGTT	TGAAGTGTTT	TGGGTATTTCG	GCAGCTGCCA	ATTCGGTCAG		
1051	GGTTGAATAT	ACTAACATTT	CTGTGTGTAT	ATGGTATTTA	GCGATATCAT		
1101	TGGAATCATG	GGGTTTTGTA	TTAGTACCCG	CTCATTTGTGG	GAAAGTCGGG		
1151	TGGTTCAATA	TCACCTGCAA	ATTTAATACA	GGATTTCAT	GATGCAGCGA		
1201	CTGACCGGGG	TTAGTATAAT	AGCTGATTAT	TCGGCTTATT	ATGCAGACCT		
1251	ATCGTGTTAG	TAGTTGCGAC	TCTTGGCGTG	AACCGGAAGA	CCGGAAGTTG		
1301	ATTTCTGACTA	TTTACGTCCG	TAACACGTCC	GTAAACAGGA	GATTTCAAGA		
1351	ATATTGCACA	TTTTGTGTGA	TATAATCGTG	ATCATCTGAG	CACGCTTCGA		
1401	CTCTTGAATA	TTTGTTAAAC	AACCGATATT	CGGGAGCTCG	CAAGCATTCG		
1450	AATTGATGCA	ATC					

FIG. 4

Prim	Sequence	Target
300 F	5'-CACTTGTATTGTGAAGCACCC-3'	
300 R	5'-TTG GTG ACA TCT CCA AAT GAC-3'	<i>Perkinsus marinus</i>
500 F	5'-ATGCTAGCCCATAGAACAGT-3'	
500 R	5'-ATGCTAGCCCACATCACAGC-3'	
NTS7	5'-AAGTCGAATTGGAGGCGTGGTGAC-3'	
NTS6	5'-ATTGTGTAACCACCCCAGGC-3'	<i>Perkinsus andrewsi</i>
PM5	5'-ATGCTAGCCC ATAGAACAGT-3'	<i>P. marinus</i> type I
PM7	5'-CAT CTC CAA ATG ACC TAC CT-3'	<i>P. marinus</i> type I
PM6	5'-ATGCTAGCCC ACATCACAGC-3'	<i>P. marinus</i> type II
PM8	5'-CAT CTC CAA ATG ACC TAC CA-3'	<i>P. marinus</i> type II

FIG. 5

	<i>P.sp.</i>	<i>P.o.</i>	<i>P.a.</i>	<i>P.m.</i>
M	d	a	d	a
M	a	d	a	d

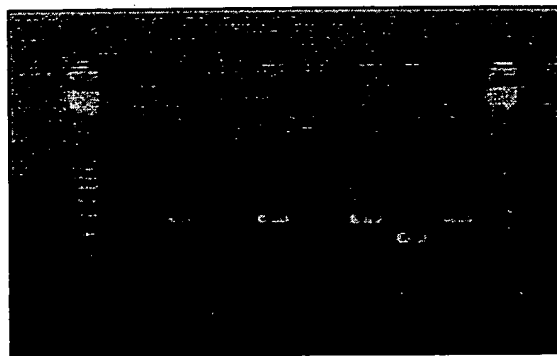
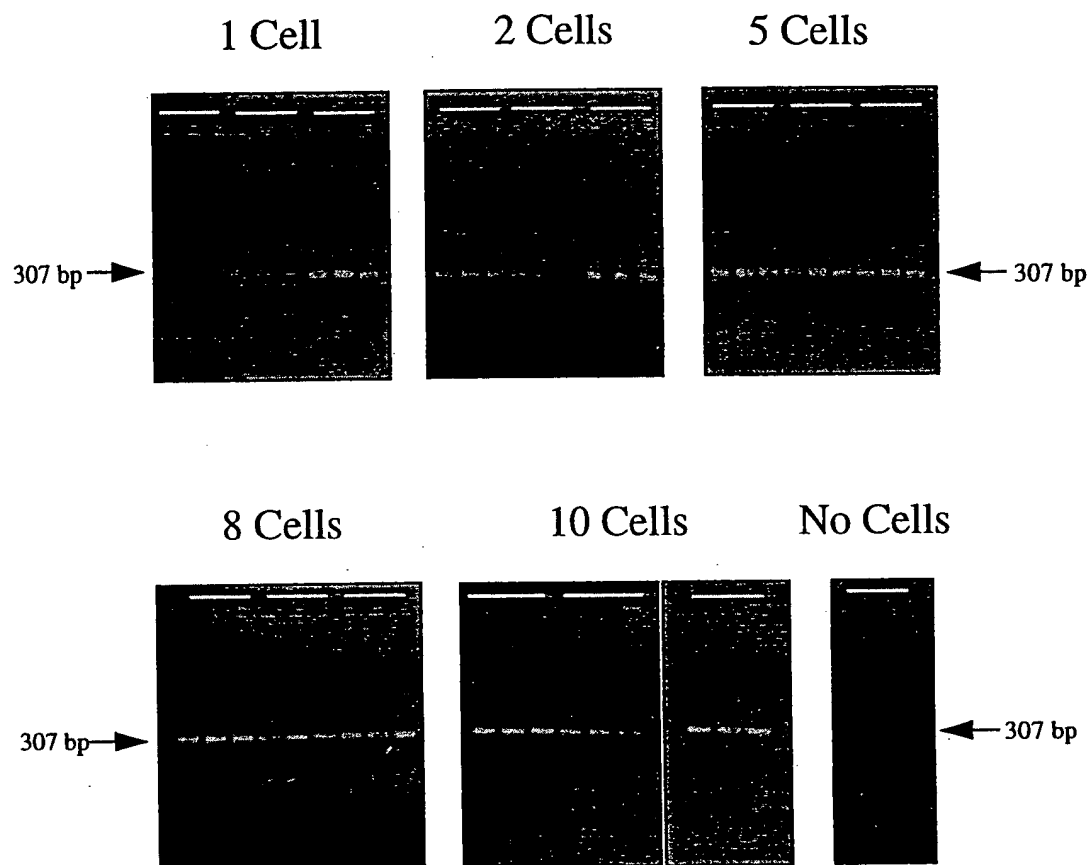


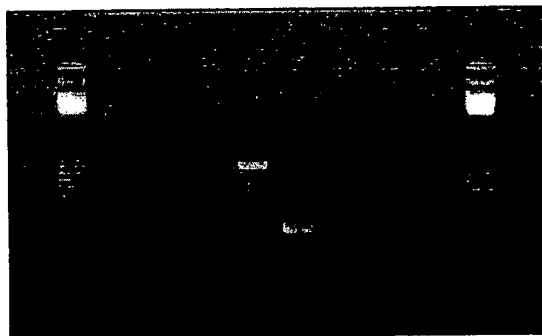
FIG. 7

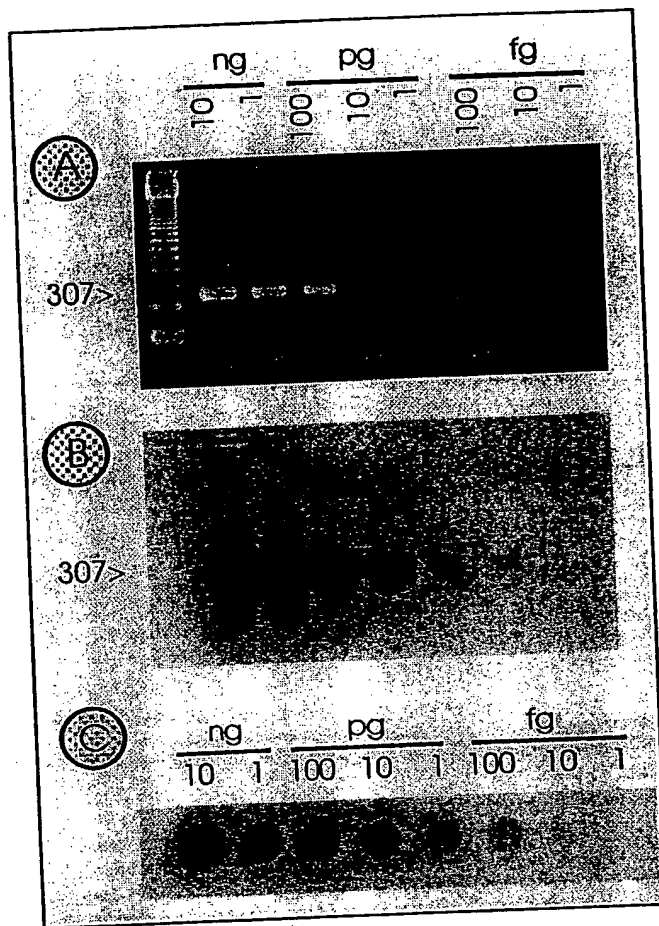


Samples

1 2 3 4

M a b a b a b a b M





	1		50
Type-I	CACTTGTATT GTGAAGCACC CAATGCTAGC CCATAGAACA GTCCAGTAGT		
Type-II	CACTTGTATT GTGAAGCACC CAATGCTAGC CCACATCACA GCCCAGTAGT		
	51		100
Type-I	TCAATAGAGA GACTAGTGAA CATAGTTTAT AACATTGTCC AAGGGGTGGA		
Type-II	TCAATAGAGA GACGAGTGAA CATAGTTTAT AACATTGTCC AAGGGGTGGA		
	101		150
Type-I	GGGGGATGCG CGAAATCGAT GTGCACGTTT GGTCAAAGAT GCTCGCGAAA		
Type-II	GGGGGATGCG CGAAATCGAT GTGCACGTTT GGTCAAAGAT GCTCGCGAAA		
	151		200
Type-I	GCTGCACATC AATTTTCGCAC ATGGGCGAAA TTGACTTGCA GGTGGGTATA		
Type-II	GCTGCACATC AATTTTCGCAC ATGGGCGAAA TTGACTTGCA GGTGGGTATA		
	201		250
Type-I	AAAGTTGATG TAGGCCATGT GGCTCGATTT CAACCATATG GGTATGCTTC		
Type-II	AAAGTTGATG TAGGCCATGT GGCTCGATTT CAACCATATG GGTATGCTTC		
	251		300
Type-I	TGAGGATGGG GTGTTACAGT GGACCATATG AGGTAGGTCA TTTGGAGATG		
Type-II	TGAGGATGGG GTGTTACAGT GGACCATATG TGGTAGGTCA TTTGGAGATG		
	301		
Type-I	TCACCAA		
Type-II	TCACCAA		

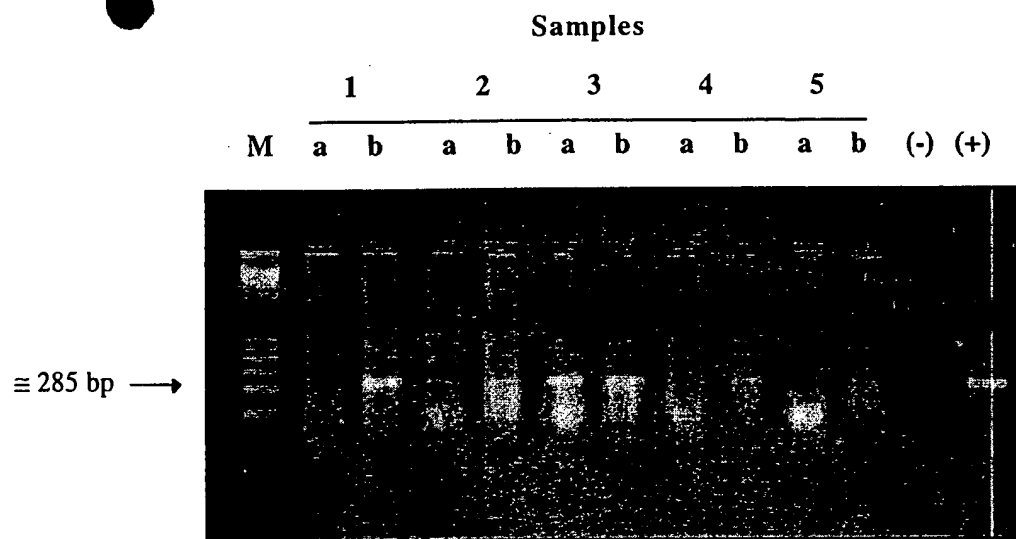
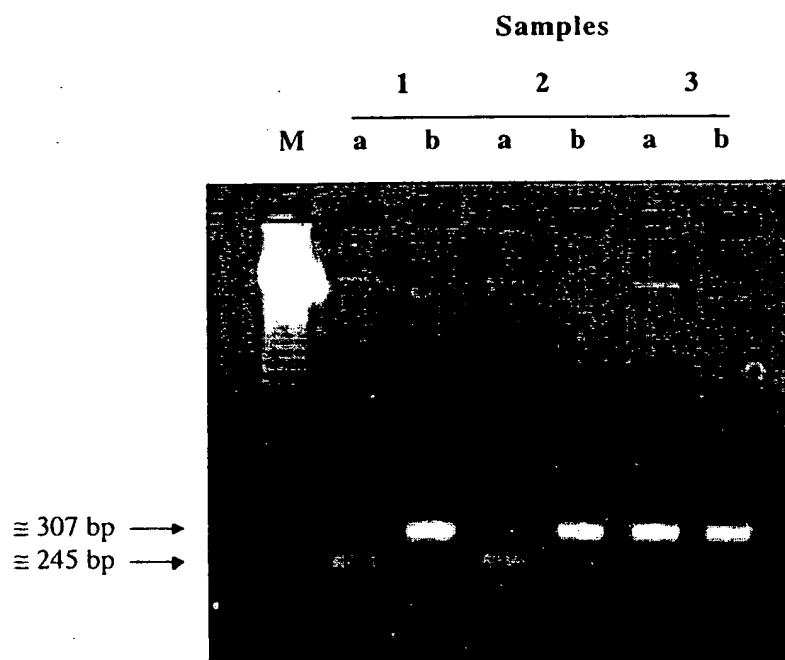
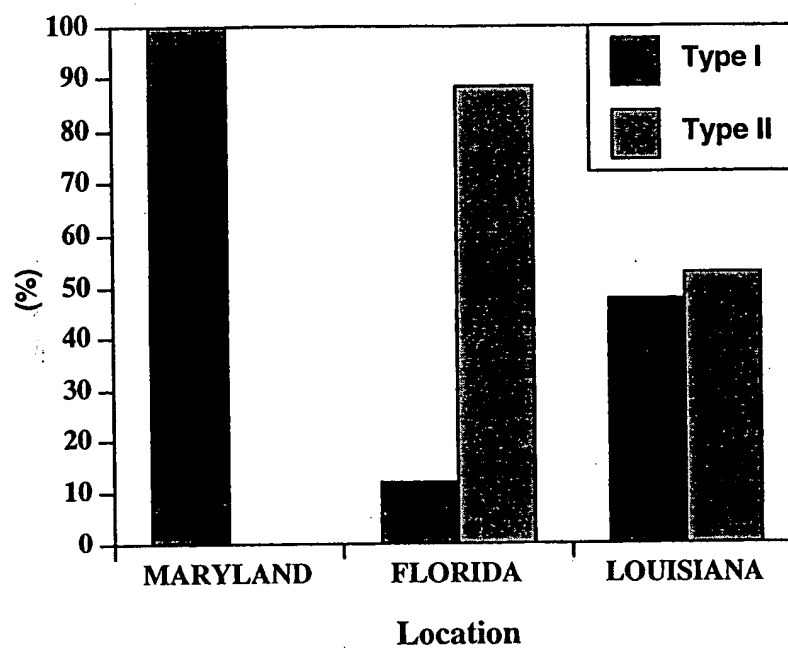
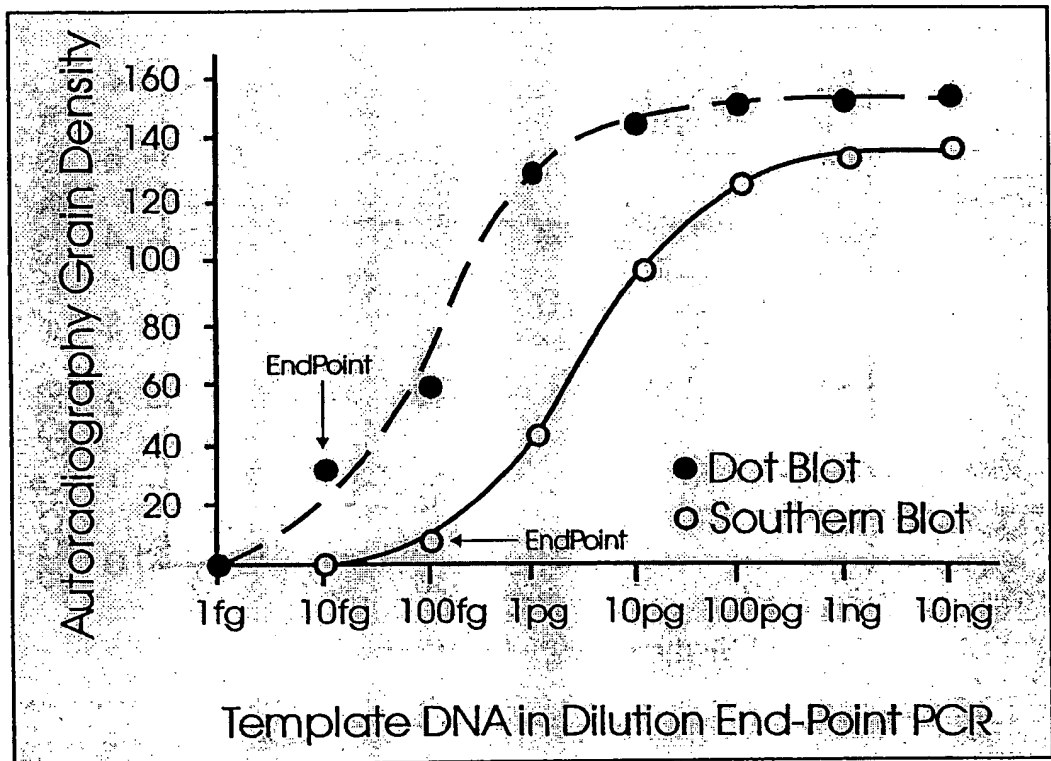


FIG. 12

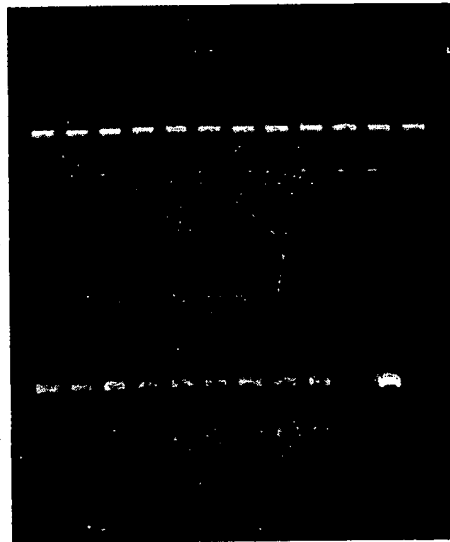




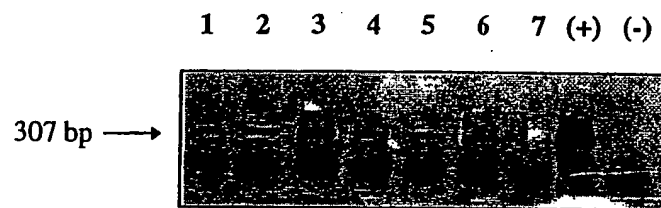


Samples

1 2 3 4 5 6 7 8 9 10 11 12



13 14 15 16 17 18 19 20 1 - + -



```

#51 .....
>P. atlanticus.AGTAGTCCAC TAGAGAGCCA AGTCGACAAT CTCTACAACA TTGTCCAAGG
#101 .....
>P. atlanticus.GGGAAAGGGG GGCGCGCGAA GTTGACCTGC AGCAGAGGGA AAAGATGCTG
#151 .....
>P. atlanticus.AGTTTGTCTG CACCCCAACT TTGCGCACTT GGCGAAGTTG ACTTGCAGGC
#201 .....
>P. atlanticus.GAGGGTAAAA GATGCTATGG TTGGTTGCGG ACCAAGTTCTG CCGTGTGGGT
>PA690F-Text ATGCTATGG TTGGTTGCGG ACC
#251 .....
>P. atlanticus.CATCATTATC GAGGTCTGTG GTGACGATGG ACTAGTTTTT AGGGATTTTT
#301 .....
>P. atlanticus.CGGAGGTGTC ACCACGGACC CCCCACTTT GCGCACGGGG GGTACTCAAT
#351 .....
>P. atlanticus.TTTAAGTGAA ATTTAAGTAA AATTTACTTA AAATTCACGT TTTTGGGTGC
#401 .....
>P. atlanticus.GCAAAGTTGA GGTGGTGACT GTGACACGA AAATTTTAAA AAAGAGAGAT
#451 .....
>P. atlanticus.ATTAAAAAA TATTTATATT TTCTGTGTCA CCGTGTCAAC AGTCACCACA
#501 .....
>P. atlanticus.GGGCGTAATT TTCCGGGAAA TTTTCAGATT TTCCGAAAAA ATTGCATTTT
#551 .....
>P. atlanticus.GGGGTAAATA GTGTCCGTCA GAATTTTGCC AAAGGACTGT CGTGATGTCC
#601 .....
>P. atlanticus.GAGTTCCCAA ATTGAGGGTT TTTGGACATC GCTCTGAAAT CGCTAACGGC
#651 .....
>P. atlanticus.GTTTCAGATT TCCGACTTTT CGACATATTC TGGGTATTG ATAGCTGCCA
#701 .....
>P. atlanticus.AATCGGTCAG CGTCGAATAT TCCAATATT CGAAGGATAT ATGATATCGC
#751 .....
>P. atlanticus.GAGATATCAT TGGATTTCAT GGGGTTTGT ATTAGTACCC GTCATTGTG
>PER1-Text TAGTACCC GTCATTGTG
#801 .....
>P. atlanticus.GGAAAGTCGG GTGAATTAT TCAACCCGCA AATCTAATAC AAGATTTGCA
>PER1-Text G
#851 .....
>P. atlanticus.TGATGCAGCG ACTGACCGGG GTGAGTGTAG CAGCTGTTCT ACGGCTTGCT
<PA690R-Text GCTGTTCT ACGGCTTGCT
#901 .....
>P. atlanticus.ACGCAGACCT ATCGTGTTAG TAGTTGCGAC TCTTGGCGTG AACCGGAAGA
<PA690R-Text AC
#951 .....
>P. atlanticus.CCGGACCTCG CTTTCGACTA TTCATTCCGA TGAATATGAG ATTGCAAGGG
#1001 .....
>P. atlanticus.TATCGCTTCG TGCGATATTT AGTGATCATC AGAGCAGCT ACGACTTCAG
#1051 .....
>P. atlanticus.TATATCCTCG GATACACAGA AGCTCGCAAG CATTGCATGA TGCAATC
<PER2-Text AGCTCGCAAG CATTGCA
#1101 .....

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FIG. 17


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>P. andrewsi-S.TGCATGTCTA AGTATAAGCT TACACGGCG AACTGCGAA TGGCTCATT
#101
>P. andrewsi-S.AAACAGTTAT AGTTTATTTG GTGATCGATT ACTATTTGGA TAACCGTAGT
#151
>P. andrewsi-S.AATTCTAGAG CTAATACATG CGTCAAGGCC CGACTTCGGA AGGGCTGCGT
#201
>P. andrewsi-S.TTATTAGATA CAGAACCAAC CTAGCTCCGC CTAGTCCTTG TTGGTGATTG
#251
>P. andrewsi-S.ATAATAACCC GGC GAATCGC ACGGCTTGTC CGGCGATGGA CCATTCAAGT
#301
>P. andrewsi-S.TTCTGACCTA TCAGCTATGG ACGGTAGGGT ATTGGCCTAC CGTGGCGTTG
#351
>P. andrewsi-S.ACGGGTAACG GGGAATTAGG GTTCGATTCC GGAGAGGGAG CCTGAGAAAC
#401
>P. andrewsi-S.GACTACCACA TCTAAGGAAG GCAACAGGCG CGCAAATTAC CCAATCCTGA
#451
>P. andrewsi-S.TACAGGGAGG TAGTGACAAG AAATAACAAT ACAGGGCAAT TCTGTCTTGT
#501
>P. andrewsi-S.AATTGGAATG AGTAGATTTT AAATCTCTTT ACGAGTATCA ATTGGAGGGC
#551
>P. andrewsi-S.AAGTCTGGTG CCAGCAGCCG CGGTAATTCC AGCTCCAATA GCGTATATTA
#601
>P. andrewsi-S.AAGTTGTTGC GGTAAAAAG CTCGTAGTTG GATTCTGACC TTGGGCGACC
>SSU3F-Text AGTTG GATTCTGACC TTGGGCG
#651
>P. andrewsi-S.GGTCCACCTT TCCTACGGGT TAGGTTGGTA CCAGGTTTGA CCTGGCTTT
#701
>P. andrewsi-S.TTCTTGGGAT TCGTGCTCAC GCACTTAACT GTGCGCTGAC CGTGTTCCTA
#751
>P. andrewsi-S.ATACATTAGC ATGGAATAAT AGGATATGAC TTTGGTCATA TTTTGTGGT
#801
>P. andrewsi-S.TTCTAGGACT GAAGTAATGA TTAATAGGGA CAGTCGGGGG CATTGCTATT
#851
>P. andrewsi-S.TAACTGTCAG AGGTGAAATT CTTGGATTG TTAAGACGA ACTACTGCGA
#901

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FIG.18A

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>P. andrewsi-S.AAGCATTTCG CAAGGATGTT TTTATTGATC AAGAACGAAA GTTAGGGGAT
#1001 .....
>P. andrewsi-S.CGAAGACGAT CAGATACCGT CCTAGTCTTA ACCATAAACT ATGCCGACTA
#1051 .....
>P. andrewsi-S.GGGATTGGGA GTCGTTAATT TTAGACGCTC TCAGCACCTC GTGAGAAATC
#1101 .....
>P. andrewsi-S.AAAGTCTTTG GGTTCGCGGG GGAGTATGGT CGCAAGGCTG AAACCTTAAAG
#1151 .....
>P. andrewsi-S.GAATTGACGG AAGGGCACCA CCAGGAGTGG AGCCTGCGGC TTAATTTGAT
#1201 .....
>P. andrewsi-S.TCAACACGGG AAAACTCACC AGGTCCAGAC ATAGGAAGGA TTGACAGATT
>SSU4F-Text ACC AGGTCCAGAC ATAGGAAGG
#1251 .....
>P. andrewsi-S.GATAGCTCTT TCTTGATTCT ATGGGTGGTG GTGCATGGCC GTTCTTAGTT
#1301 .....
>P. andrewsi-S.GGTGGAGTGA TTTGTCTGGT TAATTCCGTT AACGAACGAG ACCTTAACCT
#1351 .....
>P. andrewsi-S.GCTAAATAGT TCGGTGAAAT CTTGTATTTC ACCGCTACTT CTTAGAGGGA
#1401 .....
>P. andrewsi-S.CCCTTAGATG TTCTGGGCTG CACGCGCGCT AACTGACAC GATCAACGAG
#1451 .....
>P. andrewsi-S.TATTTCTTGG CCCGGTAGGG TTAGGGTAAT CTTTGTAAAT CGTGTCTGTC
#1501 .....
>P. andrewsi-S.TAGGGATAGA CGATTGCAAT TATTCGTCTT CAACGAGGAA TTCCTAGTAA
#1551 .....
>P. andrewsi-S.ATGCAAGTCA TCAGCTTGCG TTGATTACGT CCCTGCCCTT TGTACACACC
#1601 .....
>P. andrewsi-S.GCCCGTCGCT CCTACCGATT GAGTGATCCG GTGAGCTGTC CGGACTGCGA
#1651 .....
>P. andrewsi-S.TTAGTTCAGT TTCTGTTCTT TTCGCGGAA GTTCTGCAA CTTATCACT
#1701 .....
>P. andrewsi-S.TAGAGGAAGG AGAAGTCGTA ACAAGGTTTC CGTAGGTGAA CCTGCAGAAG
#1751 .....
>P. andrewsi-S.GATCATTC

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FIG. 18B

ACACCGATTC ATTCTCTGAG AAACCAGCGG TCTCTGTAAA AGGAGATGGG
#1
ATCTCCGCTT TGTTTAGATC CCCACACCTG ACCGCTTTAA CGGGCCGGGT
#51
AGGTGCATAA CTTCTATGAA CCAATTGTAC TAGTCTAAAG TATCCAATAT
#101
CCTTTTGGAT TTTGGTATTT CAAAACGAAA TTCCAAACTC TCAACGATGG
#151
ATGCCTCGGC TCGAGAATCG ATGAAGGACG CAGCGAAGTG CGATAAGCAC
#201
TGCGATTTGC AGAATTCCGT GAACCAGTAG AAATCTCAAC GCATACTGCA
#251
CAAAGGGGAT TTATCCTCTT TGTACATACA TATCAGTGTC GCTCTTCTTC
#301
CCGATACAAA CATTTTGTG ATTTACAATC AACATTATGC TTTGTATCCC
#351
GCTTGGATTC CTTTATTGGG ATCCGCTGTG TGCGCTTGCT GACACAGGCG
#401
CATTAAATTG CAAGGCTATA ATACTACTGT ACTGTAGCCC CTTCGCAAGA
#451
AGGACTGCGC TAGTGAGTAT CTTTGGATGC TCGCGAACTC GACTGTGTTG
#501
TGGTTGATTC CGTGTTCCCTC GATCACGCGA TTCATCGCTT CAACGCATTA
#551
TGTCAAATTT GATGAATGCA GAGAGTTGTT TATGAATTAC GCGATCGCTT
#601
TGGTCTCAGA ATCGTTACTA TAGCACGCTT GTCGGTTTGC AACCTGGCAA
#651
TATGTCATCA TT
#701

FIG. 19

		Primers to claim							
	PCR	Name	Forward Primer (5'-3')	Position ¹	Name	Reverse Primer (5'-3')	Position ¹	Amplicon Size (bp)	Publication
<i>Perkinsus</i> species									
<i>Perkinsus marinus</i>	Species specific	300F	CAC TTG TAT TGT GAA GCA CCC	60-80	300R	TTG GTG ACA TCT CCA AAT GAC	346-366	307	Marsh et al. J. Parasitol. 1995 81(4):577-83. Robledo et al. J. Parasitol. 1999 85(4):650-6.
<i>Perkinsus atlanticus</i>	Species specific	PA690F	ATG CTA TGG TTG GTT GCG GAC C	262-283	PA690R	GTA GCA AGC CGT AGA ACA GC	933-952	691	Robledo et al. J. Parasitol. 2000 86(5):972-8
<i>Perkinsus andrewsi</i> ²	Species specific	NTS7	AAG TCG AAT TGG AGG CGT GGT GAC	447-470	NTS6	ATT GTG TAA CCA CCC CAG CG	717-736	290	Coss et al. J. Euk. Microbiol. 2001 48:52-61
<i>Perkinsus marinus</i>	Generic	PER1	TAG TAC CCG CTC AT(TC) GTG G	827-845	PER2	TGC AAT GCT TGC GAG CT	1123-1139	313	
<i>Perkinsus atlanticus</i>	Generic	PER1	TAG TAC CCG CTC ATT GTG G	833-851	PER2	TGC AAT GCT TGC GAG CT	1121-1137	305	
<i>Perkinsus andrewsi</i>	Generic	PER1	TAG TAC CCG CTC ATT GTG G	1121-1239	PER2	TGC AAT GCT TGC GAG CT	1523-1539	319	

¹Relative to the NTS sequence

²*Perkinsus* sp. (*Macoma balthica*)

FIG. 20

			Primers to claim					Publication
			Name	Forward Primer (5'-3')	Position	Name	Reverse Primer (5'-3')	
<i>Perkinsus</i> species	PCR							
<i>Perkinsus andrewsi</i>	Sequencing		SSU3F	AGT TGG ATT TCT GCC TTG CGC G	626-647	SSU4F	ACC AGG TCC AGA CAT AGG AAG G	Coss et al. J. Euk. Microbiol. 2001 48:52-61

FIG. 21